## What Is Claimed Is:

1	1. A method for facilitating use of a collation element that supports a
2	large number of characters, comprising:
3	receiving the collation element;
4	reading a primary weight value from a primary weight field within the
5	collation element;
6	if the primary weight value falls within a reserved set of values, reading an
7	additional portion of the primary weight value from a secondary weight field and a
8	tertiary weight field within the collation element; and
9	if the primary weight value is not within the reserved set of values,
10	reading a secondary weight value from the secondary
11	weight field within the collation element, and
12	reading a tertiary weight value from the tertiary weight field
13	within the collation element.
1	2. The method of claim 1, wherein if the primary weight value falls
2	within a reserved set of values, the method additionally comprises:
3	setting the secondary weight value to a secondary default value; and
4	setting the tertiary weight value to a tertiary default value.
1	3. The method of claim 1, wherein the collation element adheres to a
2	structure specified in Unicode Technical Report No. 10.
1	4. The method of claim 1,
2	wherein the primary weight value identifies a character;

3	wherein the secondary weight value can specify an accent on the character;
4	and
5	wherein the tertiary weight value can specify case information for the
6	character.
1	5. The method of claim 1, wherein the collation element is four bytes
2	in size, of which the primary weight field is two bytes, the secondary weight field
3	is one byte and the tertiary weight field is one byte, unless a value in the primary
4	weight field belongs to the reserved set of values, in which case the primary
5	weight field takes up all four bytes of the collation element.
1	6. The method of claim 5, wherein the reserved set of values for the
2	primary weight value includes hexidecimal values 0xFFF0-0xFFFF.
1	7. The method of claim 1, wherein the collation element is taken from
2	a collation weight table that is used to map characters to collation weights in order
3	to establish an ordering between strings of characters.
1	8. The method of claim 7, further comprising constructing a sorting
2	key for a string by:
3	reading each character in the string;
4	looking up a corresponding collation element for each character from the
5	collation weight table; and
6	adding the corresponding collation element for each character to the
7	sorting key.
1	9. The method of claim 8,

2	wherein the sorting key is associated with a record within a database; and
3	wherein the sorting key is used to construct a linguistic index for the
4	database.
1	10. A computer-readable storage medium storing instructions that
2	when executed by a computer cause the computer to perform a method for
3	facilitating use of a collation element that supports a large number of characters,
4	the method comprising:
5	receiving the collation element;
6	reading a primary weight value from a primary weight field within the
7	collation element;
8	if the primary weight value falls within a reserved set of values, reading an
9	additional portion of the primary weight value from a secondary weight field and a
0	tertiary weight field within the collation element; and
l 1	if the primary weight value is not within the reserved set of values,
12	reading a secondary weight value from the secondary
13	weight field within the collation element, and
14	reading a tertiary weight value from the tertiary weight field
15	within the collation element.
1	11. The computer-readable storage medium of claim 10, wherein if the
2	primary weight value falls within a reserved set of values, the method additionally
3	comprises:
4	setting the secondary weight value to a secondary default value; and
5	setting the tertiary weight value to a tertiary default value.

1	12. The computer-readable storage medium of claim 10, wherein the
2	collation element adheres to a structure specified in Unicode Technical Report
3	No. 10.
1	13. The computer-readable storage medium of claim 10,
2	wherein the primary weight value identifies a character;
3	wherein the secondary weight value can specify an accent on the character
4	and
5	wherein the tertiary weight value can specify case information for the
6	character.
1	14. The computer-readable storage medium of claim 10, wherein the
2	collation element is four bytes in size, of which the primary weight field is two
3	bytes, the secondary weight field is one byte and the tertiary weight field is one
4	byte, unless a value in the primary weight field belongs to the reserved set of
5	values, in which case the primary weight field takes up all four bytes of the
6	collation element.
1	15. The computer-readable storage medium of claim 14, wherein the
2	reserved set of values for the primary weight value includes hexidecimal values
3	0xFFF0-0xFFFF.
1	16. The computer-readable storage medium of claim 10, wherein the
2	collation element is taken from a collation weight table that is used to map
3	characters to collation weights in order to establish an ordering between strings of
4	characters.

1

1	17. The computer-readable storage medium of claim 16, wherein the
2	method further comprises constructing a sorting key for a string by:
3	reading each character in the string;
4	looking up a corresponding collation element for each character from the
5	collation weight table; and
6	adding the corresponding collation element for each character to the
7	sorting key.
1	18. The computer-readable storage medium of claim 17,
2	wherein the sorting key is associated with a record within a database; and
3	wherein the sorting key is used to construct a linguistic index for the
4	database.
1	19. An apparatus that facilitates use of a collation element that
2	supports a large number of characters, comprising:
3	an assignment mechanism that is configured to read a primary weight
4	value from a primary weight field within the collation element;
5	wherein if the primary weight value falls within a reserved set of values,
6	the assignment mechanism is configured to read an additional portion of the
7	primary weight value from a secondary weight field and a tertiary weight field
8	within the collation element; and
9	wherein if the primary weight value is not within the reserved set of
10	values, the assignment mechanism is configured to,
11	read a secondary weight value from the secondary weight
12	field within the collation element, and to
13	read a tertiary weight value from the tertiary weight field
14	within the collation element.

1	20. The apparatus of claim 19, wherein if the primary weight value
2	falls within the reserved set of values, the assignment mechanism is configured to:
3	set the secondary weight value to a secondary default value; and to
4	set the tertiary weight value to a tertiary default value.
1	21. The apparatus of claim 19, wherein the collation element adheres
2	to a structure specified in Unicode Technical Report No. 10.
1	22. The apparatus of claim 19,
2	wherein the primary weight value identifies a character;
3	wherein the secondary weight value can specify an accent on the character
4	and
5	wherein the tertiary weight value can specify case information for the
6	character.
1	23. The apparatus of claim 19, wherein the collation element is four
2	bytes in size, of which the primary weight field is two bytes, the secondary weight
3	field is one byte and the tertiary weight field is one byte, unless a value in the
4	primary weight field belongs to the reserved set of values, in which case the
5	primary weight field takes up all four bytes of the collation element.

the primary weight value includes hexidecimal values 0xFFF0-0xFFFF.

The apparatus of claim 23, wherein the reserved set of values for

24.

1

2

l	25. The apparatus of claim 19, wherein the collation element is taken
2	from a collation weight table that is used to map characters to collation weights in
3	order to establish an ordering between strings of characters.
1	26. The apparatus of claim 25, further comprising a key construction
2	mechanism for constructing a sorting key for a string, wherein the key
3	construction mechanism is configured to:
4	read each character in the string;
5	lookup a corresponding collation element for each character from the
6	collation weight table; and to
7	add the corresponding collation element for each character to the sorting
8	key.
1	27. The apparatus of claim 26,
2	wherein the sorting key is associated with a record within a database; and
3	wherein the sorting key is used to construct a linguistic index for the
4	database.